Star.	R.A. 1861·0. h m s	N.P.D. 1861·0. ° ′ ″	Authority.
m m	16 55 43·43	48 21 7·36	H. C. 31031
n n	16 58 51·13	47 54 20·14	B. Z. 426. $16^h 57^m 41^s$
o o	17 2 5·02	47 57 47·50	Eq. Comparison.
p p	17 9 8·21	47 43 49·86	H. C. 31417
q q	17 10 20·85	47 38 5·93	,, 31456
r r	17 17 8·42	47 35 49·01	,, 31697
s s	17 30 28·18	46 30 36·13	,, 32154 and 5
t t	17 36 25·19	46 27 32·75	Johnson 3741
u u	17 43 54·58	45 50 48·38	,, 3763
v v	17 49 50·27	45 48 35·65	B. Z. 478. $17^h 47^m 53^s$
w w	17 55 25·32	45 16 31·59	Eq. Comparison.

The place assumed for the star (*i i*) is derived from equatorial comparisons made on Oct. 15 with H. C. 30489. The place of (*o o*) is derived from equatorial comparisons made on Nov. 20 with B. Z. 426. $16^d 57^m 41^s$, and the place of (*w w*) from equatorial comparisons with Johnson 3795 made on Feb. 20, 1862.

The observations up to July 13 were made by Professor Challis, and the subsequent ones by Mr. Bowden, the senior Assistant at this Observatory.

Cambridge Observatory,
April 25th, 1862.

Observations of Encke's Comet. By W. Scott, Astronomer for New South Wales.

(*Extract of a Letter to the Astronomer Royal, dated Observatory, Sydney, March* 22, 1862.)

"I send you herewith the only good observations I have been enabled to obtain of Encke's Comet. The weather has been cloudy or hazy for the last two months, and the Comet was, at the best, very indistinct and ill defined.

Observations of Encke's Comet with the 7-inch Equatoreal and Ring-Micrometer.

Greenwich M.T. d h m s	R.A. Comet − Star. m s	Decl. Comet − Star. ′ ″	Star.
Feb. 23 5 45 14	−5 37·7	+4 25	*a*
53 24	−1 37·8	−0 3	*b*
6 1 36	−1 36·3	−0 13	*b*
7 6	−1 35·7	+0 7	*b*
11 31	−1 36·0	+0 3	*b*
11 31	−5 35·1	+4 5	*a*

Stars of Comparison; *a*, B.A.C. 7216; *b*, 8th mag.
R.A. $20^h 38^m 22^s$; Decl. −25° 25′.

Greenwich M.T.	R.A. Comet — Star.	Decl. Comet — Star.	Star.
d h m s	m s	′ ″	
Feb. 24 5 43 26	−3 27·6	+5 24	*a*
49 14	−3 27·2	+5 17	*a*
56 6	−3 26·8	+5 29	*a*
6 3 6	+0 33·8	+0 58	*b*
9 40	+0 34·3	+1 2	*b*
12 2	+0 34·2	+0 53	*b*

Stars of Comparison same as before.

Results of Meridional Observations of Small Planets; Occultation of a Star by the Moon; and Phenomena of Jupiter's Satellites; observed at the Royal Observatory, Greenwich, during the month of April, 1862.

(*Communicated by the Astronomer Royal.*)

Flora (8).

Mean Solar Time of Observation.	R.A. from Observation.	N.P.D. from Observation.
h m s	h m s	° ′ ″
1862, April 3 13 14 50·6	14 3 15·27	92 22 40·99
15 12 16 16·5	13 51 50·22	91 11 5·40
17 12 6 25·2	13 49 50·40	91 0 4·04
21 11 46 42·2	13 45 50·39	90 39 16·90
22 11 41 46·9	13 44 50·87	90 34 27·76
24 11 31 57·4	13 42 52·80	90 25 6·09
26 11 22 9·5	13 40 56·38	90 16 17·62
28 11 12 23·8	13 39 2·26	90 8 8·48
30 11 2 41·1	13 37 11·04	90 0 35·02

Melpomene (18).

Mean Solar Time of Observation.	R.A. from Observation.	N.P.D. from Observation.
h m s	h m s	° ′ ″
1862, April 22 13 11 57·5	15 15 16·28	92 28 42·64
29 12 38 18·2	15 9 7·30	91 43 32·50

Fortuna (19).

Mean Solar Time of Observation.	R.A. from Observation.	N.P.D. from Observation.
h m s	h m s	° ′ ″
1862, April 17 9 55 53·5	11 38 57·33	88 47 7·61
21 9 38 10·4	11 36 57·47	88 31 21·76